

Amendment to the Claims

Please amend claims 77 and 86 and cancel claims 80 and 89 without prejudice as follows:

1-76. (Canceled)

77. (Currently amended) A method of providing a multicast service in a wireless communication system, the method comprising:

mapping at least one logical channel onto a transport channel; and

transmitting, to a user equipment (UE), data of the at least one logical channel through the transport channel, wherein the data is added with a header including a first identifier for identifying the at least one logical channel and a second identifier for identifying the multicast service,

wherein the second identifier is used to distinguish between MBMS services,

wherein the at least one logical channel comprises a MBMS point-to-multipoint traffic channel (MTCH) and the MTCH is mapped onto at least one transport channel,

wherein the at least one logical channel is located between a Radio Link Control (RLC) layer and a Medium Access Control (MAC) layer and the transport channel is located between the MAC layer and a physical (PHY) layer,

wherein the MAC layer comprises a plurality of MAC sub layers,

wherein each of the first identifier and the second identifier is added by a MAC-c/sh layer that processes a common or shared data,

wherein the MAC-c/sh layer further performs a scheduling function or a priority handling function,

wherein the first identifier is a Target Channel Type Field (TCTF) and the second identifier is a Multimedia Broadcast/Multicast Service (MBMS) identifier, and

wherein the MBMS identifier is ~~configured~~identified by a Radio Resource Control (RRC) layer, and the first identifier and the second identifier are only utilized when the MTCH is mapped onto at least one transport channel, and

wherein the MBMS identifier is an MBMS radio network temporary identifier (m-RNTI).

78-80. (Canceled)

81. (Previously Presented) The method of claim 77, wherein a third identifier for distinguishing a type of the second identifier is further included in the header.

82. (Previously Presented) The method of claim 81, wherein the third identifier is a UE (user equipment) ID type.

83-85. (Canceled)

86. (Currently amended) A method of receiving a multicast service in a wireless communication system, the method comprising:

receiving, at a user equipment (UE), data of at least one logical channel through a transport channel, wherein the data is added with a header including a first identifier for identifying the at least one logical channel and a second identifier for identifying the multicast service, wherein the second identifier is used to distinguish between MBMS services;

identifying the at least one logical channel and the multicast service according to the first identifier and the second identifier included in the header; and

delivering the data to a logical channel that is mapped onto the transport channel according to the first identifier,

wherein the at least one logical channel comprises a MBMS point-to-multipoint traffic channel (MTCH) and the MTCH is mapped onto at least one transport channel,

wherein the at least one logical channel is located between a Radio Link Control (RLC) layer and a Medium Access Control (MAC) layer and the transport channel is located between the MAC layer and a physical (PHY) layer,

wherein the MAC layer comprises a plurality of MAC sub layers,

wherein each of the first identifier and the second identifier is added by a MAC-c/sh layer that processes a common or shared data,

wherein the MAC-c/sh layer further performs a scheduling function or a priority handling function,

wherein the first identifier is a Target Channel Type Field (TCTF) and the second identifier is a Multimedia Broadcast/Multicast Service (MBMS) identifier, and

wherein the MBMS identifier is ~~configured~~identified by a Radio Resource Control (RRC) layer, and the first identifier and the second identifier are only utilized when the MTCH is mapped onto at least one transport channel, and

wherein the MBMS identifier is an MBMS radio network temporary identifier (m-RNTI).

87-89. (Canceled)

90. (Previously Presented) The method of claim 86, wherein a third identifier for distinguishing a type of the second identifier is further included in the header.

91. (Previously Presented) The method of claim 90, wherein the third identifier is a UE (user equipment) ID type.

92-94. (Canceled)